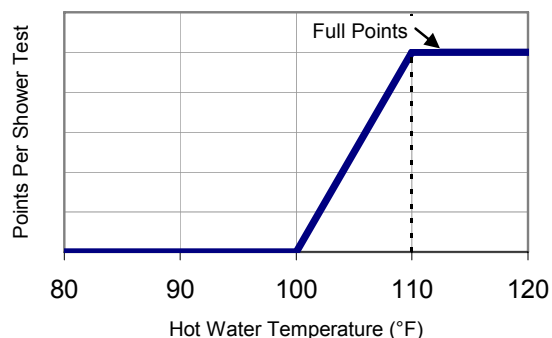


Contest 7: Hot Water

Shower Tests (100 pts):

Up to ten “shower tests” will be conducted during Contest Week. The normal schedule comprises one shower test in the morning and one shower test in the afternoon. However, if circumstances necessitate a deviation from the normal schedule, an attempt will be made to make up missed shower tests at a convenient time. This means that consecutive shower tests and/or days with more than two shower tests are possible. Teams should design and plan for this possibility. Consecutive shower tests are likely on the final day of Contest Week if the continuously measured Contest Activities, such as Indoor Temperature Control, are concluded early in the day. A deviation from the normal schedule will only occur if it applies to every team equally and fairly.

For each test, the team must deliver at least 15 gallons (U.S.) (56.8 liters) of hot water in no more than 10 minutes to qualify for points. Maximum points are earned by delivering an average temperature of at least 110°F (43.3 °C). An average temperature below 100°F (37.8 °C) earns no points. For temperatures between 100°F (37.8 °C) and 110°F (43.3 °C), the number of points is scaled linearly, as shown in the graph below.



Full Points:	Temperature \geq	110 °F	(43.3 °C)
Reduced Points:	100 °F (37.8 °C) < Temperature <	110 °F	(43.3 °C)
No Points:	Temperature \leq	100 °F	(37.8 °C)

Contest Activity	Points Available
Shower Tests	100
TOTAL	100